THE EMBODIMENTS OF THE INVENTION IN WHICH AN EXCLUSIVE PROPERTY OR PRIVILEGE IS CLAIMED ARE DEFINED AS FOLLOWS:

- 5 1. A seal assembly, comprising:
 - a first body;
 - a second body;
 - a primary seal disposed between the first body and the second body;
- a secondary seal disposed between the first body and the second body in spaced relation to the primary seal;
 - a pressure port extending through one of the first body or the second body between the primary seal and the secondary seal; and
- means for detecting a pressure increase within the pressure port, thereby indicating a failure of the primary seal.
- The seal assembly as defined in Claim 1, wherein the
 second body is positioned within the first body.
 - 3. The seal assembly as defined in Claim 2, wherein the second body is a shaft which does one of reciprocates or rotates.

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4. The seal assembly as defined in Claim 3, wherein both the primary seal and the secondary seals are annular seals.

- 5. A seal assembly, comprising:
 - a first body;

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- a second body in the form of a shaft disposed within the first body, the shaft being capable of one of reciprocating or rotating;
- a primary seal grouping including several annular seals disposed between the first body and the second body;
- a secondary seal grouping including several annular seals disposed between the first body and the second body in spaced relation to the primary seal;
- a pressure port extending through the first body between the primary seal grouping and the secondary seal grouping; and
- a pressure sensor for detecting an increase in pressure
 within the pressure port, thereby indicating a failure of the
 primary seal grouping.